

AMENDED SPECIFICATION

➤ **Please replace Paragraph 17 with the following:**

[0017] According to the sorting with the threshold value 40, each pixel 32 of the image 30 is tagged in the memory of the computer system 20 with its tissue type to generate a bone pixel set 44 having attenuation caused principally by bone and a soft tissue pixel set 46 having attenuation caused principally by soft tissue. These sets may be optionally filtered using a spatial filtering system based on pixel location to provide that each of the bone pixel set 44 and soft tissue pixel set 46 define locally continuous regions uninterrupted by single pixels of the other tissue type. (?)